What is claimed is:

- 1 (currently amended): A method of providing electrical pulses to one or both vagus nerve(s) and <u>/or</u> its branches of a patient to provide therapy for at least one of atrial fibrillation, congestive heart failure, <u>or</u> inappropriate sinus tachycardia, and refractory hypertension, comprising the steps of:
- a) providing a stimulation means, wherein said stimulation means comprising implantable and external components;
- b) providing programmer means, wherein said programmer means comprising means for networking with remote computers for data exchange; and
 - c) programming said stimulation means with said programming means; whereby, said therapy is provided by said electrical pulses.
- providing a pulse generator system, wherein said pulse generator system is one of,
 an implanted stimulus-receiver used with an external stimulator; an implanted
 stimulus-receiver comprising a high value capacitor for storing charge used
 with an external stimulator; a programmer-less implantable pulse generator
 (IPG) which is operable with a magnet; a programmable implantable pulse
 generator; a combination implantable device comprising both a stimulusreceiver and a programmable IPG; or an IPG comprising a rechargeable
 battery;
- providing at least one predetermined program stored in memory to control the output

 of said pulse generator system, wherein said predetermined program define a

 combination of programmable parameters;
- providing an implanted lead(s) in electrical contact with said implanted pulse

 generator, wherein said implanted lead(s) comprising at least one electrode

 adapted to be in contact with said vagus nerve(s);
- providing a programmer for activating and/or programming said pulse generator system;
- selectively choosing and/or programming said at least one predetermined program to emit electrical pulses to said vagus nerve(s).
- whereby therapy is provided for one of said atrial fibrillation, congestive heart failure, or inappropriate sinus tachycardia.

- 2 (canceled)
- 3 (canceled)
- 4 (canceled)

5 (currently amended): The method of claim [[4]] 1, wherein said external stimulator further comprises telemetry means unit for networking.

6 (original): The method of claim 1, wherein said programmer further comprises a telemetry unit for networking.

7 (currently amended): The method of claim 6, wherein said programmer means can be remotely operated over a wide area network <u>such as the internet</u>.

8 (canceled)

9 (currently amended): The method of claim 1, wherein said <u>pulse generator</u> <u>system implantable components</u> comprises an implantable pulse generator (IPG) with a recharging coil for recharging the implantable pulse generator using an external power source.

- 10 (currently amended): A method of providing electrical pulses to one or both vagus nerve(s) and <u>/or</u> its branches of <u>in</u> a patient[,] with a stimulation means comprising implanted and external components to provide therapy for at least one of atrial fibrillation, congestive heart failure, <u>or</u> inappropriate sinus tachycardia, and refractory hypertension, comprising the steps of:
 - a) providing implantable pulse generator means;
 - b) providing an external stimulator means and programming means;
- c) providing a lead in connection with said implantable pulse generator means, and adapted to be in contact with the said vagus nerve(s); and
- d) selectively operating said implantable pulse generator means or external stimulator means

whereby, said therapy is provided with pulsed electrical stimulation.

- providing a programmable implantable pulse generator to provide said
 electrical pulses comprising microprocessor, electrical circuitry,
 memory, and power source;
- providing an implantable lead in electrical contact with said implantable pulse generator, and at least one electrode adapted to be in contact with said vagus nerve(s):
- providing an external programmer comprising circuitry for programming said implantable pulse generator using inductively coupled means for bidirection data exchange, and further comprising telemetry means for remote communication using a wide area network;
- programming said implantable pulse generator with said external programmer

 to deliver predetermined electrical pulses for providing said therapy;

 and
- remotely communicating with said external programmer for data exchange over a wide area network.

11 (canceled)

12 (canceled)

- 13 (currently amended): A method of providing therapy for congestive heart failure (CHF) using electrical pulses to a vagus nerve, comprising the steps of:
- a) providing implantable stimulation means wherein, said stimulation means comprises implanted or external power source, to provide electrical pulses to said vagus nerve;
- b) providing programmer means external to the body for programming said stimulation means;

whereby, said electrical pulses supplied to said vagus nerve provide therapy for congestive heart failure.

- providing a pulse generator system, wherein said pulse generator system is one of,
 an implanted stimulus-receiver used with an external stimulator; an implanted
 stimulus-receiver comprising a high value capacitor for storing charge used
 with an external stimulator; a programmer-less implantable pulse generator
 (IPG) which is operable with a magnet; a programmable implantable pulse
 generator; a combination implantable device comprising both a stimulusreceiver and a programmable IPG; or an IPG comprising a rechargeable
 battery;
- providing at least two predetermined programs stored in memory of said pulse

 generator system to control the output of said pulse generator system,

 wherein said predetermined program define a combination of programmable parameters;
- providing an implanted lead(s) in electrical contact with said implanted pulse

 generator, wherein said implanted lead(s) comprising at least one electrode

 adapted to be in contact with said vagus nerve(s):
- providing a programmer for activating and/or programming said pulse generator
 system, wherein said programmer further comprises telemetry circuitry for
 remote communication using a wide area network;
- selectively choosing and/or programming said at least one predetermined program to emit electrical pulses to said vagus nerve(s);
- remotely communicating with said programmer for data exchange over a wide area network.
 - 14 (canceled)
 - 15 (canceled)
 - 16 (canceled)
- 17 (currently amended): The method of claim 13, wherein said <u>pulse</u> generator system implantable components comprises an implantable pulse

generator (IPG) with a recharging coil for recharging the implantable pulse generator using an external power source.

18 (currently amended): A method to increase the cardiac parasympathetic
tone in a patient using pulsed electrical stimulation to a vagus nerve(s), comprising
the steps of:
a) providing implantable stimulation means wherein, said stimulation
means comprises implanted or external power source, to provide electrical pulses to
said vagus nerve;
b) providing programmer means external to the body for programming
said stimulation means;
whereby, said pulsed electrical stimulation to said vagus nerve leads to
increased cardiac parasympathetic tone.

- providing a pulse generator system, wherein said pulse generator system is one of,
 an implanted stimulus-receiver used with an external stimulator; an implanted
 stimulus-receiver comprising a high value capacitor for storing charge used
 with an external stimulator; a programmer-less implantable pulse generator
 (IPG) which is operable with a magnet; a programmable implantable pulse
 generator; a combination implantable device comprising both a stimulusreceiver and a programmable IPG; or an IPG comprising a rechargeable
 battery:
- providing at least one predetermined program to control the output of said pulse

 generator system, wherein said predetermined program define a combination

 of programmable parameters;
- providing an implanted lead(s) in electrical contact with said implanted pulse

 generator, wherein said implanted lead(s) comprising at least one electrode

 adapted to be in contact with said vagus nerve(s);
- providing a programmer for activating and/or programming said pulse generator system;
- selectively choosing and/or programming said at least one predetermined program to emit electrical pulses to said vagus nerve(s).

whereby cardiac para	asympathetic to	one is increased with	electrical stimulation to a
vagus nerve.			
19 (canceled)			
20 (currently a	•		3, wherein said programmer
·		e method of claim 18	3, wherein said wireless wide area network.
			3, wherein said <u>pulse</u>
generator system im	plantable com	oonents comprise <u>s</u> a	n implantable pulse
generator (IPG) with	a recharging c	oil for recharging the	implantable pulse generator
using an external por	wer source.		
23 (canceled)			
24 (canceled)			
25 (canceled)			
26 (canceled)			
27 (canceled)			
28 (canceled)			
29 (canceled)			
30 (canceled)			

- 31 (new): The method of claim 1, wherein said pulse generator system further comprises at least two predetermined/pre-packaged programs stored in memory of said pulse generator system.
- 32 (new): The method of claim 1, wherein said at least one predetermined program can be modified.
- 33 (new): The method of claim 1, wherein said pulse generator system can further be remotely interrogated and/or programmed.
- 34 (new): The method of claim 1, wherein said pulse generator system further provides rate control for atrial fibrillation.
- 35 (new): The method of claim 1, wherein said pulse generator system further provides rate control for inappropriate sinus tachycardia.
- 36 (new): The method of claim 10, wherein said pulse generator system further provides rate control for atrial fibrillation.
- 37 (new): The method of claim 10, wherein said pulse generator system further provides rate control for inappropriate sinus tachycardia.
- 38 (new): The method of claim 10, wherein said pulse generator system can further be remotely interrogated and/or programmed.
- 39 (new): The method of claim 10, wherein said at least two predetermined programs can be modified.
- 40 (new): The method of claim 13, wherein said pulse generator system can further be remotely interrogated and/or programmed.

- 41 (new): The method of claim 18, wherein said pulse generator system further comprises at least two predetermined/pre-packaged programs stored in memory of said pulse generator system.
- 42 (new): The method of claim 18, wherein said at least one predetermined program can be modified.
- 43 (new): The method of claim 18, wherein said pulse generator system can further be remotely interrogated and/or programmed.
- 44 (new): The method of claim 18, wherein said pulse generator system further provides rate control for atrial fibrillation.
- 45 (new): The method of claim 18, wherein said pulse generator system further provides rate control for inappropriate sinus tachycardia.
- 46 (new): A method of providing electrical pulses to one or both vagus nerve(s) and/or its branches of a patient to provide therapy for at least one of atrial fibrillation, or inappropriate sinus tachycardia, comprising the steps of:
 - providing a pulse generator system, wherein said pulse generator system is one of, an implanted stimulus-receiver comprising a high value capacitor for storing charge used with an external stimulator; a programmer-less implantable pulse generator (IPG) which is operable with a magnet; a programmable implantable pulse generator; a combination implantable device comprising both a stimulus-receiver and a programmable IPG; or an IPG comprising a rechargeable battery;
 - providing at least one predetermined program to control the output of said pulse generator system, wherein said predetermined program define a combination of programmable parameters;
 - providing an implanted lead(s) in electrical contact with said implanted pulse generator, wherein said implanted lead(s) comprising at least one electrode adapted to be in contact with said vagus nerve(s);

providing a programmer for activating and/or programming said pulse generator system;

whereby therapy is provided for one of said atrial fibrillation, or inappropriate sinus tachycardia.

47 (new): The method of claim 46, wherein said at least one predetermined program can be modified.

48 (new): The method of claim 46, wherein said pulse generator system can further be remotely interrogated and/or programmed.

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